## APPENDIX D

# SELECTED SEISMIC SAFETY REFERENCES

#### INTRODUCTION

This list of references focuses on the national arena generally and on the three specific geographic areas examined by the BSSC Committee on Societal Implications: the Mississippi Valley area; the Charleston, South Carolina, area; and the Puget Sound area. It is not intended to be an exhaustive list but rather to serve as the basis for specialized, area-specific research. Not all of the documents cited are widely available but an attempt has been made to identify the authors and/or original publication sites in sufficient detail to permit interested readers to make the necessary contacts. See also the list of information sources in the preceding section.

#### TOPICS COVERED

The references are presented under the following major headings:

- 1. Nature and Description of the Seismic Hazard
  - a. National
  - b. Mississippi Valley Area
  - c. Charleston Area
  - d. Puget Sound Area
- 2. Seismic Hazard Mitigation
  - a. National
  - b. Mississippi Valley Area
  - c. Puget Sound Area
- 3. Seismic Safety Code Development and Implementation
  - a. National
  - b. Charleston Area
- 4. Risk Perception and Hazard Awareness
- 5. Economics
- 6. Liability
- 7. Public Policy

## NATURE AND DESCRIPTION OF THE SEISMIC HAZARD

#### <u>National</u>

- Algermissen, S. T. 1984 An Introduction to the Seismicity of the United States. Berkeley, California: Earthquake Engineering Reseach Institute.
- Algermissen, S. T., Ed. 1972. <u>Conference on Seismic Risk Assessment</u>
  <u>for Building Standards</u>. Washington, D.C.: U.S. Department of
  Commerce and U.S. Department of Housing and Urban Development.
- Bolt, Bruce A. 1978. <u>Earthquakes: A Primer</u>. San Francisco: California: W. H. Freeman and Company.
- Hays, Walter W., Ed. 1981. <u>Evaluation of Regional Seismic Hazard and Risk</u>. USGS Open File Report 81-437. Reston, Virginia: U.S. Geological Survey.
- Hays, Walter W. 1981. Facing Geological and Hydrologic Hazards: Earth Science Considerations. USGS Professional Paper 1240-B. Washington, D.C.: U.S. Government Printing Office.
- National Oceanic and Atmospheric Administration and U.S. Geological Survey. 1979. <u>Earthquake History of the United States (1971-1976 Supplement)</u>. USGS/NOAA Publication 41-1. Washington, D.C.: U.S. Department of Commerce and U.S. Department of Interior.
- U.S. Geological Survey. 1978. <u>Proceedings of Conference V, Communicating Earthquake Hazard Information</u>. USGS Open File Report 78-933. Menlo Park, California: U.S. Geological Survey.

### Mississippi Valley

- Beavers, James E., Ed. 1981. <u>Earthquake and Earthquake Engineering:</u>
  <u>The Eastern United States</u>. 2 volumes. Ann Arbor, Michigan: Ann Arbor Science Publishers, Inc.
- Clifton, Juanita W. 1980. Reelfoot and the New Madrid Quake. Asheville. North Carolina: Victor Publishing Company.
- Department of Earth and Atmospheric Science, St. Louis University (Missouri). 1980. The New Madrid Fault Zone: Potential for Disasters, Problems, and Information Needed for Disaster Relief Planning. Unpublished paper.
- Department of Earth Sciences, St. Louis University (Missouri). 1980. Earthquake Damage Potential in Missouri. Unpublished paper.
- Ferritto, John M. 1979. <u>Seismic Analysis of Memphis</u>. Technical Memorandum 51-79-18. Port Hueneme, California: U.S. Navy, Naval Construction Ballation.

- Fuller, Myron Leslie. 1912. <u>The New Madrid Earthquake</u>. Washington, D.C.: U.S. Government Printing Office.
- Fuller, M. B. 1912. <u>The New Madrid Earthquake</u>. USGS Bulletin 494. Reprinted by Ramfre Press, Cape Girardeau, Missouri, 1966.
- Hamilton, Robert M. 1980. "Quakes Along the Mississippi." <u>Natural</u> <u>History</u> 89 (8):70-74.
- Hamilton, R. M., and M. D. Zoback. 1979. <u>Seismic Reflection Profile in the Northern Mo. Embayment</u>. USGS Open File Report 79-1688. Reston, Virginia: U.S. Geological Survey.
- Hays, W. W., Ed. 1981. <u>Proceedings of Conference XV, A Workshop on Preparing and Responding to a Damaging Earthquake in the Eastern United States</u>. USGS Open File Report 82-220. Reston, Virginia: U.S. Geological Survey.
- Heyl, A. V., and F. A. McKeown. 1978. <u>Preliminary Seismotectonic Map of Central Mississippi Valley and Environs</u>. Miscellaneous Field Studies Map MF 1011. Reston, Virginia: U.S. Geological Survey.
- Johnson, Arch C., and Susan J. Nava. 1985. "Earthquake Hazard in the Memphis, Tennessee, Area." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- Liu, B. C., C. T. Hsieh, R. Gustafson, et al. 1979. <u>Earthquake Risk</u> and <u>Damage Functions: An Integrated Preparedness and Planning Model Applied to New Madrid</u>. Kansas City, Missouri: Midwest Research Institute. (Available from the National Technical Information Service, Springfield, Virginia.)
- M & H Engineering and Memphis State University. 1974. Regional Earthquake Risk Study. Memphis, Tennessee: MATCOG/MCDD.
- Nuttli, Otto W. 1985. "Nature of the Earthquake Threat in St. Louis."

  In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- Nuttli, Otto W. 1981. <u>Evaluation of Past Studies and Identification of Needed Studies of the Effects of Major Earthquakes Occurring in the New Madrid Fault Zone</u>. St. Louis, Missouri: St. Louis University.
- Nuttli, Otto W. 1974. "Magnitude-Recurrence Relation for Central Mississippi Valley Earthquakes." <u>Seismological Society of America Bulletin</u> 64 (4):1189-1207.

- Nuttli, Otto W. 1974. "The Mississippi Valley Earthquakes of 1811 and 1812." Earthquake Information Bulletin 6 (2).
- Nuttli, Otto W. 1973. "Mississippi Valley Earthquake of 1811-1812: Intensities, Groundmoution, and Magnitudes." <u>Seismological Society of America Bulletin</u> 63:227-248.
- Nowak, Andrzej S., and Elizabeth L. Rose Morrison. 1982. <u>Earthquake</u>
  <u>Hazard Analysis for Commercial Buildings in Memphis</u>. Ann Arbor:
  University of Michigan.
- Parks, W. S., and R. W. Lounsbury. 1976. Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee. USGS Water-Resources Investigation 76-4. Reston, Virginia: U.S. Geological Survey. (Available as Report PB-264 513/AS from the National Technical Information Service.)
- Penick, James L. 1981. <u>The New Madrid Earthquake</u>. Columbia: University of Missouri Press.
- Penick, James L. 1978. <u>The New Madrid Earthquake of 1811 and 1812</u>. Columbia: University of Missouri.
- Russ, David. 1981. "Model for Assessing Earthquake Potential and Fault Activity in the New Madrid Seismic Zone." In <u>Earthquakes and Earthquake Engineering</u>, edited by J. Beavers. Ann Arbor, Michigan: Ann Arbor Science.
- Street, R. L. 1980. <u>A Compilation of Accounts Describing the Mississippi Valley Earthquake of 1811-1812</u>. Lexington: University of Kentucky.
- U.S. Geological Survey. 1983. <u>Proceedings of Conference XVIII, Continuing Actions to Reduce Losses from Earthquakes in the Mississippi Valley Area</u>. USGS Open File Report 1983-157. Reston, Virginia: U.S. Geological Survey.
- U.S. Geological Survey. 1982. Proceedings of Conference XV, Preparing for and Responding to a Damaging Earthquake in the Eastern United States. USGS Open File Report 82-220. Reston, Virginia: U.S. Geological Survey.
- U.S. Geological Survey. 1982. <u>Investigation of the New Madrid, Missouri, Earthquake Region</u>. USGS Professional Paper 1236. Washington, D.C: U.S. Government Printing Office.
- Zoback, M. D., et al. 1980. "Recurrent Intraplate Tectonism in the New Madrid Seismic Zone. Science 209 (August).

#### Charleston Area

- Bollinger, G. A. 1985. "Earthquake at Charleston in 1886." In <u>BSSC</u>

  <u>Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- Bollinger, G. A., and Ellen Mathena. 1982. "Seismicity of the Southeastern United States, July 1, 1981-December 31, 1981." Southeastern U.S. Seismic Network Bulletin (9). (Published by the Division of Earth Sciences, Virginia Polytechnic Institute and State University, Blacksburg.)
- Lindbergh, Charles, Ed. 1982. <u>Earthquake Hazards and Risk in South Carolina and the Southeastern U.S.</u> Charleston, South Carolina: Seismic Safety Consortium.
- Rankin, D. W., Ed. 1977. <u>Studies Related to the Chrieston, South Carolina, Earthquake of 1888-A Preliminary Report</u>. USGS Professional Paper 1028. Reston, Virginia: U.S. Geological Survey.
- Reagor, B. G. <u>Seismicity Map of the State of South Carolina</u>. USGS Miscellaneous Field Studies Map MF-1225 (:1,000,000). Reston, Virginia: U.S. Geological Survey.
- U.S. Geological Survey. 1977. <u>Studies Related to the Charleston, South Carolina, Earthquake of 1886</u>. USGS Professional Paper 1028. Washington, D.C.: U.S. Government Printing Office.
- U.S. Geological Survey. 1983. <u>Proceedings of Conference XX, The 1886 Charleston, South Carolina, Earthquake and Its Implications for Today</u>. USGS Open File Report 83-843. Reston, Virginia: U.S. Geological Survey.
- U.S. Geological Survey. 1983. <u>Proceedings of Conference XXIII, Continuing Actions to Reduce Potential Losses from Future Earthquakes in Arkansas and Nearby Sttes</u>. USGS Open File Report 83-846. Reston, Virginia: U.S. Geological Survey.

#### Puget Sound Area

- Algermissen, S. T., and S. T. Harding. 1965. <u>The Puget Sound Earth-quake of April 29, 1965</u>. Washington, D.C.: U.S. Department of Commerce Coast and Geodetic Survey.
- Algermissen, S. T., Samuel T. Harding, Karl V. Steinbrugge, and William K. Cloud. N.d. The Puget Sound, Washington, Earthquake of April 29, 1965. Preliminary repor for the U.S. Coast and Geodetic Survey.
- Chaney, Eric S. 1978. <u>Geology</u>, <u>Man</u>, <u>and Nuclear Plan Sites on the Skagit</u>. Seattle, Washington: Junior League at Seattle.

- Coombs, Howard A. 1974. Report to the Washington State Legislature from the ad hoc Committee on Geologic Hazards. Olympia: Washington State Legislature.
- Coombs, H. A., and J. D. Barksdale. 1942. "The Olympia Earthquake of November 13, 1939." <u>Bulletin of the Seismological Society of America</u> 32 (1).
- Crosson, R. C. 1972. "Small Earthquake Structure and Tectonics of the Puget Sound Region." <u>Bulletin of the Seismological Society of America</u> 62 (5).
- Freeman, Sigmund A., Joseph P. Nicoletti, Joseph B. Tyrrell, and John A. Blume and Associates. 1975. <u>U.S. National Conference on Earthquake Engineering Proceedings, Evaluation of Existing Buildings for Seismic Risk</u>. Oakland, California: Earthquake Engineering Research Institute.
- Gower, H. D. 1978. <u>Tectonic Map of the Puget Sound Region, Washington</u>. USGS Open File Report 78-426. Menlo Park, California: U.S. Geological Survey.
- Rasmussen, Norman H., R. C. Mallard, and S. W. Smith. 1974. <u>Earth-quake Hazard Evaluation of the Puget Sound Region, Washington State</u>. Seattle: University of Washington Press.
- Smith, Stewart W. 1985. "Introduction to Seismological Concepts Related to Earthquake Hazards in the Pacific Northwest." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- Stepp, C. J. 1971. An Investigation of Earthquake Risk in the Puget Sound Area by Use of the Type I Distribution of Largest Extremes.

  College Park: Pennsylvania State University.
- U.S. Department of Housing and Urban Development, Federal Disaster Assistance Administration. 1978. Federal Earthquake Preparedness Plan for the Puget Sound Area. Seattle, Washington: U.S. Department of Housing and Urban Development, Federal Disaster Assistance Administration.
- U.S. Geological Survey. 1975. A Study of Earthquake Losses in the Puget Sound, Washington, Area. USGS Open File Report 75-375. Menlo Park, California: U.S. Geological Survey.
- Weaver, Craig S., and Stewart W. Smith. 1982. Regional Tectonic and Earthquake Hazard Implications of a Crustal Fault Zone in Southwestern Washington. Seattle: University of Washington, Geophysics Program.

Yount, James C., and Robert S. Crosson, Eds. 1980. <u>Proceedings of National Earthquake Hazards Reduction Program, Earthquake Hazards of the Puget Sound Region</u>. USGS Open File Report 83-0019. Menlo Park, California: U.S. Geological Survey.

### SEISHIC HAZARD MITIGATION

#### National

- Applied Technology Council. 1981. An Evaluation of a Response Spectrum Approach to Seismic Design of Buildings. Palo Alto, California: Applied Technology Council.
- Arnold, Christopher, and Richard K. Eisner. 1984. <u>Planning Information for Earthquake Hazard Response and Reduction</u>. San Mateo, California: Building Systems Development, Inc.
- Beavers, James E. 1985. "Current Practices in Earthquake Preparedness and Mitigation for Critical Facilities." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- Beavers, James E., Ed. 1981. <u>Earthquakes and Earthquake Engineering--</u>
  <u>Eastern United States</u>. 2 volumes. Ann Arbor, Michigan: Ann Arbor Science Publishers, Inc.
- Building Seismic Safety Council. 1984. <u>BSSC Program on Improved Seismic Safety Provisions</u>, Volume 2, <u>NEHRP (National Earthquake Hazards Reduction Program)</u> Recommended Provisions for the Development of <u>Seismic Regulations for New Buildings</u>, Part 1--Provisions and Part 2--Commentary. Washington, D.C.: Building Seismic Safety Council.
- California Seismic Safety Commission. 1979. <u>Hazardous Buildings:</u>
  <u>Local Programs to Improve Life Safety</u>. Sacramento: California Seismic Safety Commission.
- Earthquake Engineering Systems, Inc. 1978. A Rational Approach to Damage Mitigation in Existing Structures Exposed to Earthquakes:

  Phase I Report. San Francisco, California: Earthquake Engineering Systems, Inc.
- Jaffe, Martin, et al. 1981. <u>Reducing Earthquake Risks: A Planner's</u>
  Guide. Chicago, Illinois: American Planning Association.
- Hays, Walter W. "Evaluation of the Earthquake Ground Shaking Hazard for Earthquake Resistant Design." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- National Research Council. 1983. <u>Multiple Hazard Mitigation</u>. Washington, D.C.: National Academy Press.

- Nigg, Joanne, and Alvin Mushkatel. 1984. Structural Policy Issues for Seismic Hazard Mitigation. Unpublished paper. (Contact the authors at Arizona State University, Center for Public Affairs, Tempe, Arizona 85287.)
  - Scott, Stanley. 1982. Third International Earthquake Microzonation Conference Proceedings. 3 volumes. Seattle: University of Washington Department of Civil Engineering, Structural, and Geotechnical Engineering and Mechanics Programs.
- Scott, Stanley, 1979. Policies for Seismic Safety: Elements of a State Governmental Program. Berkeley: University of California Institute of Governmental Studies.
- Ward, Delbert B. 1985. "Management of Earthquake Safety Programs by State and Local Governments." In BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings. Washington, D.C.: Building Seismic Safety Council.

, turn raight greathail a' beatail a' ceatail air

ROBERTAN GALL FASTER CAN VALUE IN

Contracting the second of the Contracting of the Co

gi dang iti di dakofo da kab<mark>alan</mark>g angkara THE STATE OF THE S

# Andrea de la companya del companya del companya de la companya de

- Drabek, et al. 1983. Earthquake Mitigation Policy: The Experience of <u>Two States</u>. Monograph 37. Boulder: University of Colorado.
- Thiel. Charles. Jr., and Ugo Morelli. 1981. "An Approach to Seismic Safety for the Central United States." In Earthquakes and Earthquake Engineering -- Eastern United States, Vol. 2, edited by J. Beavers. Ann Arbor, Michigan: Ann Arbor Science Publishers. ilm qimette (si çé), şe (j. 18. liqe

#### Puget Sound Area

- Buck, Richard A. 1978. "The Puget Sound Preparedness Project." In Proceedings of Conference V, Communicating Earthquake Hazard Reduction Information. USGS Open File Report 78-933. Reston, Virginia: U.S. Geological Survey.
- Puget Sound Concil of Governments, 1975. Regional Disaster Mitigation Technical Study for the Central Puget Sound Region, Vol. II. Seattle, Washington: Puget Sound Council of Governments.

14 KM 15 18-11

## SEISMIC SAFETY CODE DEVELOPMENT AND IMPLEMENTATION

#### National

Algermissen, S. T., Ed. 1972. Proceedings of the Conference on Seismic Risk Assessment for Building Standards. Washington D.C.: U.S. Department of Commerce and U.S. Department of Housing and Urban Development.

- Algermissen, S. T. 1978. "Earthquake Hazard Studies and Building Codes." In <u>Proceedings of Conference V, Communicating Earthquake Hazard Reduction Information</u>. USGS Open File Report 78-933. Reston, Virginia: U.S. Geological Survey.
- Applied Technology Council. 1984. <u>Tentative Provisions for the Development of Seismic Regulations for Buildings</u>. Report ATC 3-06 amended. Palo Alto, California: Applied Technology Council.
- Arnold, Christopher, and Robert Reitherman. 1982. <u>Building Configuration and Seismic Design</u>. New York: John Wiley.
- Berg, Glen V. 1983. <u>Seismic Design Codes and Procedures</u>. Berkeley, California: Earthquake Engineering Research Institute.
- Berlin, G. Lennis. N.d. <u>Earthquake and the Urban Environment</u>. Vol. II. Boca Raton, Florida: CRC Press, Inc.
- Biggs and Grace. 1973. <u>Seismic Response of Buildings Designed by Code</u>
  <u>for Different Earthquake Intensities</u>. ST 358. Cambridge, Massachusetts: MIT Department of Civil Engineering.
- Brookshire, David S. and William D. Schulze. 1980. Methods Development for Valuing Hazards Information. Laramie: University of Wyoming.
- Building Seismic Safety Council. 1984. <u>BSSC Program on Improved Seismic Safety Provisions</u>, Volume 2, <u>NEHRP (National Earthquake Hazards Reduction Program)</u> Recommended Provisions for the Development of <u>Seismic Regulations for New Buildings</u>, Part 1--Provisions and Part 2--Commentary. Washington, D.C.: Building Seismic Safety Council.
- California Seismic Safety Commission. 1979. <u>Hazardous Buildings:</u>
  <u>Local Programs to Improve Life Safety</u>. SSC 79-03. Sacramento:
  California Seismic Safety Commission.
- Cooke, Patrick W., and Robert M. Eisenhard. 1977. A Preliminary Examination of Building Regulations Adopted by the States and Major Cities. NBSIR-77-1390. Washington, D.C.: National Bureau of Standards.
- Culver, Charles C., et al. 1978. <u>Plan for the Assessment and Implementation of Seismic Design Provisions for Buildings</u>. NBSIR-78-1549. Washington, D.C.: National Bureau of Standards.
- D'Appolonia, E., and D. E. Shaw. 1981. "The Impact of Codes and Regulations in Seismic Safety." In <u>Earthquakes and Earthquake Engineering: The Eastern United States</u>, Vol. 1, edited by J. E. Beavers. Ann Arbor, Michigan: Ann Arbor Science Publishers.
- De Neufville, Richard. 1975. How Do We Evaluate and Choose Between Alternative Codes for Design and Performance? Report 17 of the Seismic Design Decison Analysis directed by Robert Whitman. Cambridge, Massachusetts: MIT Department of Civil Engineering.

- Dillon, Robert M. 1985. "Development of Seismic Safety Codes." In <a href="mailto:BSSC Program on Improved Seismic Safety Provisions">BSSC Program on Improved Seismic Safety Provisions</a>, Societal Implications: Selected Readings. Washington, D.C.: Building Seismic Safety Council.
- Harris, James. 1978. "Information Flow in the Development of Earthquake Provisions for Building Codes. In <u>Proceedings of Conference V, Communicating Earthquake Hazard Reduction Information</u>, USGS Open File Report 78-933. Reston, Virginia: U.S. Geological Survey.
- Hicks, James M., Jr. 1978. <u>Standards Referenced in the National Building Code</u>. NBSIR-78-1490. Washington, D.C.: National Bureau of Standards.
- International Conference of Building Officials. 1980. <u>Issues Which Affect the Role of Building Departments in Earthquake Hazard Mitigation</u>. Whittier, California: International Conference of Building Officials.
- Krimgold, Frederick. 1977. <u>Seismic Design Decisions for the Commonwealth of Massachusetts State Building Code</u>. Report 32. Cambridge, Massachusetts: MIT Department of Civil Engineering.
- Leslie, Stephen K., and J. M. Biggs. 1972. <u>Earthquake Code Evaluation</u> and the Effect of Seismic Design on the Cost of Buildings. Report 20 prepared as part of the Seismic Design Decision Analysis directed by Robert Whitman. Cambridge, Massachusetts: MIT Department of Civil Engineering.
- McConnaughey, John S., Jr. 1978. An Economic Analysis of Building Code Impacts: A Suggested Approach. NBSIR-78-1528. Washington, D.C.: National Bureau of Standards.
- Mintier, J. Laurence, and Peter Arne Stromberg. 1983. "Seismic Safety at the Local Level: Does Planning Make a Difference?" <u>California Geology</u> 36(7).
- National Bureau of Standards. 1978. <u>State Adopted Building Regulations</u>
  <u>for the Construction of Manufactured Buildings: An Analysis.</u>
  NBSIR-781503. Washington, D.C.: National Bureau of Standards.
- National Technical Information Service. 1982. <u>Seismic Design for Buildings and Building Codes: 1970 to November 1982</u>. Citations from the NTIS Data Base. Springfield, Virginia: National Technical Information Service.
- Olson, Richard S., and Nilson, Douglas C. 1981. "Policies and Implementation: Enforcing the Seismic Provisions of Building Regulations." Paper presented at the Annual Meeting of the Western Political Science Association in Denver, Colorado, March. (Contact Olson at Arizona State Universty, Tempe.)

- Olson, Richard S., and Nilson, Douglas C. 1983. "California's Hazardous Structure Problem: A Political Perspective." <u>California Geology</u> 36(4).
- Slosson, James E., and James P. Krohn. 1977. "Effective Building Codes." California Geology (June).
- Smyrl, Elmira S., and Donna Linn Crossland. 1980. <u>Literature Review:</u>
  The Building Regulatory System. Washington, D.C.: National Bureau of Standards.
- Turner, Ralph H., et al. 1981. "Los Angeles Building and Safety Ordinance: A Case Study." In <u>Community Response to Earthquake Threat in Southern California</u>, Vol. 8. Los Angeles: University of California.
- Van Zandt, Jack E. 1975. <u>The Historical Development of Building Code Earthquake Provisions</u>. Working Paper. Menlo Park, California: SRI.
- Wyllie, Loring A. 1980. "Seismic Strengthening of Old Buildings with Modern Codes." In <u>Proceedings of the First Seminar on U.S./Japan Cooperative Research Program in Earthquake Engineering on Repair and Retrofit of Structures</u>. Ann Arbor: University of Michigan, Department of Civil Engineering.
- Wyner, Alan J., and Dean E. Mann. 1983. <u>Seismic Safety Policy in Cal-ifornia: Local Governments and Earthquakes</u>. Santa Barbara: University of California.
- Zsutty, Theodore C., and Haresh C. Shah. 1985. "The Purpose and Effects of Earthquake Codes." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.

### Charleston Area

- Leyendecker, Edgar V. 1983. <u>Seismic Design Requirements in the Southeastern United States</u>. In USGS Open File Report 83-843. Reston, Virginia: U.S. Geological Survey.
- Sharpe, Roland. 1983. <u>Earthquake Resistant Design Considerations for the Southeastern United States</u>. In USGS Open File Report 83-843. Reston, Virginia: U.S. Geological Survey.

## RISK PERCEPTION AND HAZARD AWARENESS

- Saarinen, T. F. 1979. The Relation of Hazard Awareness to Adoption of Approved Mitigation Measures. Unpublished paper. Boulder: University of Colorado (NHRAIC).
- Slovic, Paul, Baruch Fischoff, and Sara Lichstein. 1980. "Facts and

Fears: Understanding Perceived Risk." In <u>Societal Risk Assessment: How Safe Is Safe Enough?</u>, edited by Richard Schiving and Walter Albers. New York: Plenum Press.

#### ECONOMICS

- Brookshire, David S., and William D. Schulze. 1980. <u>Methods Development for Valuing Hazard Information</u>. Report prepared for the U.S. Geological Survey. Laramie: University of Wyoming.
- Leslie, Stephen K., and J. M. Biggs. 1972. <u>Earthquake Code Evaluation</u> and the Effect of Seismic Design on the Cost of Buildings. Report 20 prepared as part of the Seismic Design Decision Analysis directed by Robert Whitman. Cambridge, Massachusetts: MIT Department of Civil Engineering.
- Cohen, L., and R. Noll. 1981. "The Economics of Building Codes to Resist Seismic Shock." <u>Public Policy</u> 29(1):1-30.
- Dacy, Douglas C., and Howard Kunreuther. 1969. <u>The Economics of Natural Disasters, Implications for Federal Policy</u>. New York: The Free Press.
- Ellson, Richard W., Jerome W. Milliman, and R. Blaine Roberts. 1982. Assessing the Regional Effects of Earthquake Predictions. Unpublished paper. Study supported by National Science Foundation Research Grant PFR 80-19826 and the College of Business Administration at the University of South Carolina.
- Ferrito, John M. 1981. "Economic Review of Earthquake Design Levels." ASCE <u>Journal of Structural Engineering</u> (August).
- Friesema, H. Paul, James Caporaso, Gerald Goldstein, Robert Lineberry, and McCleary. 1979. <u>Aftermath--Communities After Natural Disasters</u>. Beverly Hills, California: Sage Publications.
- Goodisman, Leonard D. 1983. "Disaster Relief Budgeting." <u>Public Budgeting and Finance</u> 3(5):89-102.
- Hirschberg, J. G., P. Gordon, and W. J. Petak. 1978. <u>Natural Hazards:</u>
  <u>Socioeconomic Impact Assessment Model</u>. Redondo Beach, California:
  J. H. Wiggins Company. (NTIS No. PB294681/AS.)
- Jones, Barclay G., and Miha Tomazevic, Editors. 1982. Social and Economic Aspects of Earthquakes: Proceedings of the Third International Conference Held in Bled, Yugoslavia. For copies, contact Barclay Jones, Program in Urban and Regional Studies, Cornell University, Ithaca, New York.
- J. H. Wiggins Company. N.d. <u>Building Losses from Natural Disasters:</u>
  <u>Yesterday, Today, and Tomorrow</u>. Redondo Beach, California: J. H. Wiggins Company.

- Kunreuther, Howard, and Elissandra S. Fiore. 1966. The Alaskan Earthquake: A Case Study in the Economics of Disaster. Washington, D.C.: Institute for Defense Analysis.
- May, Peter J., and Leonard Goodisman. 1982. <u>Problems in Formulating Disaster Relief After Mount St. Helens</u>. Seattle: University of Washington.
- Milliman, Jerome W., and R. Blaine Roberts. 1982. Assessing the Effects of Policies on the Economic Losses of Natural Hazards. Unpublished report. Supported by National Science Foundation Grant PFR 80-19826 and the College of Business Administration, University of South Carolina.
- Mukerjee, Tapan. 1971. <u>Economic Analysis of Natural Hazards: A Preliminary Study of Adjustments to Earthquakes and Their Costs.</u>
  NHRAIC Working Paper 17. Boulder: University of Colorado.
- Palm, Risa. 1981. <u>Real Estate and Special Study Zones Disclosure: the Response of California Homebuyers to Earthquake Hazards Information</u>. Monograph 32. Boulder: University of Colorado.
- Palm, Risa, et al. 1983. <u>Home Mortgage Lenders, Real Property Appraisers, and Earthquake Hazards</u>. Boulder: University of Colorado.
- Petak, W. J., A. A. Atkisson, and P. H. Gleye. <u>Natural Hazards: A Building Loss Mitigation Assessment</u>. Redondo Beach, California: J.H. Wiggins Company.
- Rawie, Carol Chapman. 1981. <u>Estimating Economic Impacts of Building Codes</u>. Washington, D.C.: National Bureau of Standards.
- Schulze, William D., and David S. Brookshire. 1981. "An Economic Analysis of the Benefits and Costs of Seismic Building Codes." In Earthquakes and Earthquake Engineering: The Eastern United States, Vol. 1, edited by J. Beavers. Ann Arbor, Michigan: Ann Arbor Science Publishers.
- Scawthorn, Charles, et al. 1982. "The Influence of Natural Hazards on Urban Housing Loction." <u>Journal of Urban Economics</u> (11):242-251.
- Stallings, Robert A. 1983. Making Decisions About Disasters: Policies, politics, and the Costs of Relief. Unpublished manuscript. School of Public Administration, University of Southern California.
- Weber, Stephen F. 1985. "Cost Impact of the <u>NEHRP Recommended Provisions</u> on the Design and Construction of Buildings." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implications: Selected Readings.</u> Washington, D.C.: Building Seismic Safety Council.
- Wright, James D., Peter H. Rossi, Sonia R. Wright, and Eleanor Weber-Burdin. 1979. After the Clean-Up, Long-Range Effects of Natural Disasters. Beverly Hills, California: Sage Publications.

- Association of Bay Area Governments. 1979. Attorney's Guide to Earthquake Liability. Berkeley, California: Association of Bay Area Governments.
- Association of Bay Area Governments. 1979. <u>Will Local Government Be Liable for Earthquake Losses</u>. Berkeley, California: Association of Bay Area Governments.
- Association of Bay Area Governments. 1978. Experiences and Perceptions of Local Governments on Earthquake Hazards. Berkeley, California: Association of Bay Area Governments.
- Association of Bay Area Governments. 1978. <u>Legal References on Earth-quake Hazards and Local Government Liability</u>. Berkeley, California: Association of Bay Area Governments.
- Association of Bay Area Governments. N.d. <u>Earthquake Hazards and Local</u>
  <u>Government Liability: Executive Summary</u>. Berkeley, California:
  Association of Bay Are Governments.
- Huffman, J. L. 1982. Government Liability for Harm Resulting from Earthquake Prediction and Hazard Mitigation, A Preliminary Report on a Comparative Study. Portland, Oregon: Lewis and Clarke College Law School.
- National Association of Attorneys General. 1979. Report of the Special Committee of the National Association of Attorneys Generals on Earthquake Prediction, Warnings, and Public Policy. Washington, D.C.: National Association of Attorneys General.

#### PUBLIC POLICY

- Lambright, W. Henry. N.d. Agenda Setting for Earthquake Preparedness: Lessons from New York State. Unpublished paper. (Contact the author at Syracuse Research Corporation, Merrill Lane, Syracuse, New York 13210-4080.)
- Lambright, W. Henry. N.d. Earthquake Preparedness: The Dynamics of Long-Term Policy Innovation. Unpublished paper. (Contact the author at Syracuse Research Corporation, Merrill Lane, Syracuse, New York 13210-4080.)
- Lambright, W. Henry. 1982. "Policy Innovation in Earthquake Preparedness: A Longitudinal Study of Three States." Paper prepared for presentation at the Annual Meeting of the American Political Science Association, Denver, Colorado, September 2-5.
- Nilson, Douglas. 1984. "How to Gain the Attention and Commitment of Political officials: An Earthquake Primer." In <u>Primer on Improving the State of Earthquake Hazards Mitigation and Preparedness</u>, edited by Paula L. Gori. USGS Open File Report 84-772. Reston, Virginia:

- U.S. Geological Survey.
- Nilson, Douglas C., and Linda B. Nilson. 1981. "Seismic Safety Planning Strategies: Lessons from California." In <u>Earthquakes and Earthquake Engineering: The Eastern United States</u>, edited by James E. Beavers. Ann Arbor, Michigan: Ann Arbor Science Publishers.
- Olson, R. S., and Douglas Nilson. 1980. "Public Policy Analyses and Hazard Research: Natural Complements." <u>Social Science Journal</u> (Fall):1-25.
- Petak, William J., Editor. 1985. <u>Public Administration Review</u> 45(January). Special Issue on Emergency Management: A Challenge for Public Administration.

Proportion of the control of the control of the con-

- Rubin, Claire B. 1985. "Summary of Recent Research on Local Public Policy and Seismic Safety Mitigation." In <u>BSSC Program on Improved Seismic Safety Provisions, Societal Implictions: Selected Readings</u>. Washington, D.C.: Building Seismic Safety Council.
- Wyner, Alan J. 1984. "Earthquake and Public Policy Implementation in California." <u>International Journal of Mass Emergencies and Disasters</u> 2(August).
- Wyner, Alan J., and Dean E. Mann. 1983. <u>Seismic Safety Policy in Cal-ifornia</u>: <u>Local Governments and Earthquakes</u>. Santa Barbara: University of California, Department of Political Science.

ing the control of th

The state of the first of the state of the s